Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	10728	shortest adj path .	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/06 17:02
S2	1434	cost same S1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/06 17:02
S3	384	probability and S2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/06 17:03
S4	602	S2 and "370"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/06 17:04
S5 .	171	S3 and "370"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/07 10:35
S6	789	SRG or (shared adj risk adj group)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/07 10:36
S7	10728	shortest adj path	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/07 10:36
S8	27	S7 and S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR ,	ON	2007/03/07 10:36

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S9	29	(US-20020191545-\$ or US-20050249185-\$ or US-20040042406-\$ or US-20050083936-\$ or US-20060109853-\$ or US-20050237950-\$ or US-20030118027-\$ or US-20030118024-\$ or US-20050249186-\$ or US-20050249186-\$ or US-20030147352-\$ or US-20020186665-\$ or US-20020186665-\$ or US-20030026268-\$ or US-20040205237-\$ or US-20040205237-\$ or US-20040190445-\$ or US-20040165532-\$ or US-20040205238-\$ or US-20040205238-\$ or US-20040205238-\$ or US-20040205238-\$ or US-20040205238-\$ or US-20040205238-\$ or US-20040258409-\$).did. or (US-7020086-\$ or US-6836756-\$ or US-20040258409-\$).did. or	US-PGPUB; USPAT	OR	ON	2007/03/07 15:08
		US-20040258409-\$).did. or (US-7020086-\$ or US-6836756-\$ or US-7187652-\$ or US-6996514-\$ or US-6928484-\$ or US-6882627-\$). did.				
S10	18	S9 and graph	US-PGPUB; USPAT	OR	ON	2007/03/07 15:08

S11	29	(US-20060109853-\$ or	US-PGPUB;	OR	ON	2007/03/08 12:07
		US-20060051090-\$ or	USPAT			
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		US-6882627-\$ or US-6836756-\$).			,	
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S12	184959	signaling	US-PGPUB;	OR	ON	2007/03/08 12:07
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S13	20357	network adj controller	US-PGPUB;	OR	ON	2007/03/08 12:07
			USPAT;			
			USOCR;			
			EPO; JPO;			
			DERWENT			
C14	4412	C12 and C13	US-PGPUB;	OR	ÓN	2007/03/08 12:07
S14	4412	S12 and S13		UK	Ola	2007/03/00 12:07
			USPAT;			
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			EPO; JPO;			
			DERWENT			
S15	2	S11 and S14	US-PGPUB;	OR	ON	2007/03/08 14:14
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S16	479	("20050025058" "4811337"	US-PGPUB;	OR	ON	2007/03/08 14:15
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S17	4981	370/216,217,221,222,223,224,225, 226,227,228,238,248,250.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/08 14:16
S18 ⁻	78	S16 and S17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/08 14:45
S19	7	stochastic and S16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/08 14:46
S20	17	stochastic and path and (risk adj group)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/08 14:46



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Stochastic approaches to compute shared mesh restored lightpaths in optical network architectures

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Abstract

We assess the benefits of using statistical techniques to ascertain the shareability of protection channels whe computing shared mesh restored lightpaths. Current deterministic approaches require a detailed level of information proportional to the number of active lightpaths, and do not scale well as traffic demands and network grow. With the proposed approach, we show that less information, independent of the amount of traff demand, is sufficient to determine the shareability of protection channels with remarkable accuracy. Experiments also demonstrate that our approach yields faster computation times with no significant penalty in terms of capacity usage.

Index Terms Inspec

Controlled Indexing

channel allocation optical fibre networks statistical analysis telecommunication traffic wavelength division multiplexing

Non-controlled Indexing

<u>DWDM</u> computation times dense wavelength division multiplexing optical network architectures protection channel shareability restored lightpaths shared mesh lightpaths statistical techniques stochastic approach traffic demand

. Author Keywords

Not Available

References

No references available on IEEE Xplore.

Citing Documents

Efficient distributed restoration path selection for shared mesh restoration, Guangzhi Li; Dongmei Wang; Kalmanek, C.; Doverspike, R. Networking, IEEE/ACM Transactions on

On page(s): 761-771, Volume: 11, Issue: 5, Oct. 2003 Abstract | Full Text: PDF (449)

Traffic grooming for survivable WDM networks - shared protection, Canhui Ou; Keyao Zhu; Hui Zang; Sahasrabuddhe, L.H.; Mukherjee, B. Selected Areas in Communications, IEEE Journal on

On page(s): 1367-1383, Volume: 21, Issue: 9, Nov. 2003 <u>Abstract</u> | Full Text: <u>PDF</u> (931)

3 Trap avoidance and protection schemes in networks with shared risk link groups, Dahai Xu; Yizhi Xiong; Chunming Qiao; Guangzhi Li

Lightwave Technology, Journal of

On page(s): 2683-2693, Volume: 21, Issue: 11, Nov. 2003

Abstract | Full Text: PDF (444)

4 New and improved approaches for shared-path protection in WDM mesh networks, Canhui Ou; Jing Zhang; Hui Zang; Sahasrabuddhe, L.H.; Mukherjee, B. Lightwave Technology, Journal of

On page(s): 1223-1232, Volume: 22, Issue: 5, May 2004

Abstract | Full Text: PDF (376)

5 Fast optical Layer mesh protection using pre-cross-connected trails, Chow, T.Y.; Chudak, F.; Ffrench, A.N. Networking, IEEE/ACM Transactions on

On page(s): 539-548, Volume: 12, Issue: 3, June 2004

Abstract | Full Text: PDF (288)

6 On achieving optimal survivable routing for shared protection in survivable next-generation Internet, Pin-Han Ho; Tapolcai, J.; Mouftah, H.T.

Reliability, IEEE Transactions on

On page(s): 216-225, Volume: 53, Issue: 2, June 2004

Abstract | Full Text: PDF (320)

7 A novel survivable routing algorithm for shared segment protection in mesh WDM networks with partial wavelength conversion, Pin-Han Ho; Mouftah, H.T. Selected Areas in Communications, IEEE Journal on On page(s): 1548- 1560, Volume: 22, Issue: 8, Oct. 2004

Abstract | Full Text: PDF (1184)

8 Distributed computation of shared backup path in mesh optical networks using probabilistic methods, Bouillet, E.; Labourdette, J.-F.

Networking, IEEE/ACM Transactions on

On page(s): 920- 930, Volume: 12, Issue: 5, Oct. 2004

Abstract | Full Text: PDF (808)

9 Distributed route computation and provisioning in shared mesh optical networks, Hang Liu; Bouillet, E.; Pendarakis, D.; Komaee, N.; Labourdette, J.-F.; Chaudhuri, S.

Selected Areas in Communications, IEEE Journal on

On page(s): 1626- 1639, Volume: 22, Issue: 9, Nov. 2004

Abstract | Full Text: PDF (576)

10 Segment shared protection in mesh communications networks with bandwidth guaranteed tunnels, Pin-Ha Ho; Tapolcai, J.; Cinkler, T.

Networking, IEEE/ACM Transactions on

On page(s): 1105-1118, Volume: 12, Issue: 6, Dec. 2004

Abstract | Full Text: PDF (768)

11 Fast Approximate Dimensioning and Performance Analysis of Mesh Optical Networks, Labourdette, J.-F.;

Bouillet, E.; Ramamurthy, R.; Akyamac, A.A.

Networking, IEEE/ACM Transactions on On page(s): 906- 917, Volume: 13, Issue: 4, Aug. 2005

Abstract | Full Text: PDF (856)

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